

Message Text

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TAGS: CCMS, SENV, NATO

SUBJECT: CCMS: PROPOSED NATO/CCMS PILOT STUDY ON
-- DRINKING WATER OUTLINE

REF: A. USNATO 6796 B. STATE 304368

REQUEST POST PASS FOLLOWING REVISED OUTLINE OF PROPOSED
NEW CCMS PILOT STUDY TO APPROPRIATE HOST COUNTRY/INTER-
NATIONAL ORGANIZATION OFFICES. US WILL TABLE PROPOSAL
AT SPRING 1977 CCMS PLENARY AT DUSSELDORF, FRG,
FEBRUARY 8-9.

I. ANALYTICAL CHEMISTRY AND DATA HANDLING

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A. MONITORING METHODS AND STANDARD TESTING PROCEDURES

- 1. WHAT IS BEING ANALYZED
- 2. HOW IT IS BEING ANALYZED
- 3. MANDATORY OR RECOMMENDED
- 4. FREQUENCIES

- 5. PUBLICATIONS AND COOPERATIVE ACTIVITIES
- (EACH PARTICIPATING COUNTRY SHOULD DISCUSS ITS
- APPROACH TO THIS SUBJECT)

B. AUTOMATED PROCESS CONTROL AND STREAM MONITORING

- TECHNOLOGY AND METHODS (SENSORS AND TELEMETRY)

C. DATA HANDLING AND RESOLUTION

D. USE OF DATA IN DECISION-MAKING

E. INFORMATION FORMAT DESIGN

II. ADVANCED TREATMENT TECHNOLOGY

A. TECHNOLOGY DESCRIPTION

- 1. ACTIVATED CARBON (POWDERED AND GRANULAR), CARBON
- AND OZONE, AND REACTIVATION)

- 2. OTHER ADSORPTION MEDIA (SAND AND RESINS)

- 3. DISINFECTION TREATMENT

- (A) CHLORINE
- (B) CHLORAMINES
- (C) CHLORINE DIOXIDE
- (D) OZONE
- (E) SILVER

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- (F) ULTRA VIOLET
- (G) BROMINE (BROMINE CHLORIDE)
- (H) IODINE
- (I) GAMMA RADIATION
- (J) PORTABLE TECHNIQUES

- 4. OTHERS (DESALINATION, ION EXCHANGE, FLOTATION AND
- FLOCCULATION TECHNOLOGY, DENITRIFICATION)

- 5. MEMBRANE TREATMENT (OSMOSIS AND ELECTRODIALYSIS)

- B. EVALUATION OF TECHNOLOGY (FOR EACH TECHNOLOGY LISTED
- IN ITEMS 1-5 THE FOLLOWING INFORMATION SHOULD BE
- SUPPLIED)

- (1) COST DATA (CAPITAL AND OPERATING)
- (2) EFFECTIVENESS OF EACH TECHNIQUE IN REMOVING
- THE ELEMENT TARGETED FOR REMOVAL

- (3) QUALITY OF TREATMENT CHEMICALS
- (4) RESIDUES AND BY-PRODUCT FORMATION

C. EMERGENCY RESPONSE MEASURES WHEN APPROPRIATE

III. MICROBIOLOGICALS

- A. SAMPLING AND ASSESSMENT (MONITORING FREQUENCIES,
-- INDICATORS, ETC.)
- B. TREATMENT MODIFICATION AND VARIATION IN RISKS FROM
-- BACTERIA AND VIRUSES
- (1) REDUCTION OF QUANTITY OF DISINFECTANT AND
-- RESULTS OF REDUCTION
- (2) BUILD UP OF ENDOTOXINS FROM ABSORBANT USES

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IV. HEALTH EFFECTS

- A. SIGNIFICANCE OF CONTAMINANTS TO HUMAN HEALTH
- 1. LISTING, IDENTIFICATION AND CONCENTRATION OF
-- CONTAMINANTS
- (A) CHEMICALS (ORGANIC AND INORGANIC)
- (B) MICROBIOLOGICAL (BACTERIA, VIRUS, PROTOZOANS)
- (C) PARTICULATES (ASBESTOS, TURBIDITY)
- 2. LOCATION OF CONTAMINANTS
- (A) RAW WATER
- (C) TREATMENT PROCESS
- (C) TREATMENT PROCESS
- B. HEALTH EFFECTS EVALUATION OF CONTAMINANTS IN
-- DRINKING WATER
- 1. WATERBORNE DISEASE
- 2. TOXICOLOGY (PROTOCOLS FOR ASSESSMENT AND
-- CURRENT ACTIVITIES
- 3. EPIDEMIOLOGY (PROSPECTIVE AND RETROSPECTIVE)
- STUDIES; IDENTIFYING POPULATIONS FOR FUTURE STUDIES
- C. PRIORITIZATION OF CONTAMINANTS RELATIVE TO HEALTH
-- EFFECTS

D. INFORMATION FORMAT DESIGN

V. REUSE OF WATER RESOURCES

A. EPIDEMIOLOGICAL ASPECTS OF REUSE

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B. APPROPRIATE TREATMENT TECHNOLOGY FOR VARIOUS REUSE
SITUATIONS

C. COMPOSITION OF RECYCLED WATER

VI. GROUND WATER CONSIDERATIONS

A. PROTECTION

B. RECHARGE

C. OTHER

NOTE: FURTHER ELEMENTS TO BE DISCUSSED AT A FUTURE
WORKING SESSION IN ADDITION TO THE ABOVE INDEX ARE:

1. ENERGY CONSERVATION

2. INVESTIGATION OF OTHER DATA SOURCES (OECD, CEC,
ISO, WHO, ETC.)

3. POSSIBLE RELEVANCE TO 1977 UN WATER CONFERENCE.
ROBINSON

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